

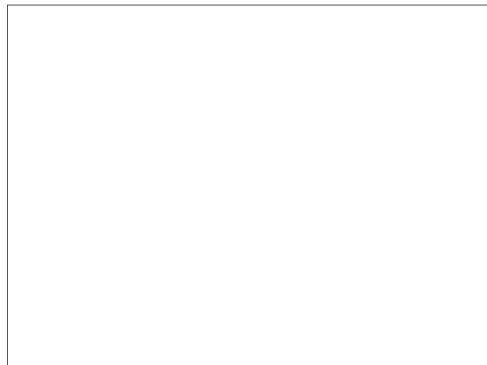
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13 September 1955

INFORMATION FOR THE RECORD

SUBJECT: Table Showing Status of Hole-Drilling Projects as of 7 September 1955

1. The Third Monthly Meeting of the Hole-Drilling Committee was held on 7 September 1955. Those present were:



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2. The table below shows the status of the project at the present time.

APP Division

Subject	Status	Remarks	
Recovery Drilling. Proposal was all-inclusive and not specific.	<input type="checkbox"/> will submit another proposal.	<input type="checkbox"/> discussed proposal with <input type="checkbox"/> of <input type="checkbox"/> in greater detail as to the need of the project.	25X1 25X1 25X1

National Bureau of Standards

Wall-thickness Measurement Gauge. Feasibility of Ultra-sonic measurement and type of equipment which might be used.

Proposal accepted and work now in progress. Final results expected in 3-4 months.

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Chemical Division

DOC	13	REV DATE	22 JULY 80	BY	657447
ORIG COMP	056	OPI	56	TYPE	03
ORIG CLASS	5	PAGES	9	REV CLASS	
JUST	22	NEXT REV	2010	AUTHI	HR 70-2

Chemical decomposition of concrete and mortar

Awaiting security approval. This company does contract research work on cement and concrete chemistry.

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25X1

Subject

Chemical decomposition of concrete and mortar.

Status

Waiting security approval.

Report

These companies do contract research work on cement and concrete chemistry.

Wall-thickness measurement

Feasibility study and calculations now underway.

Use back-scattering of neutrons.

Engineering DivisionProposal covers

- a. Survey of batteries to be used to run motors.
- b. Survey of d.c. motors to determine feasibility of battery-operated, quiet, drills.
- c. Preliminary sensory drilling tests with available equipment.
- d. Report of results and conclusions - \$6360 - 4 mos.

Proposal will be dropped.

There are several other methods of obtaining alternating current as well as several methods of obtaining power. (See [redacted] Proposal.)

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Proposal covers a general study of the present state of the art and consideration of new methods of wall penetration. Suggests work on:

- a. Supersonic drilling.
- b. Jet of abrasive particles in liquid or air.
- c. Rubber bit impregnated with diamonds - \$9750 - 6 mos.

Proposal will be re-submitted. Emphasis will be upon mechanics of cutting, such as angle of cutting bit; also high velocity jets.

25X1

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Engineering Division (Contd)

(Contd)

25X1

Subject	Status	Remarks
Proposal covers a first phase for:	Will accept as is. Proposal being processed.	
a. Survey of commercial equipment.		
b. Tests of bargained commercial equipment to determine what could be used and what should be developed for our purposes.		
c. Reports of results and recommendations - \$6500 - 4 mos.		

The proposal covers the construction of a testing facility to consist of a building (10' x 20') with heat and power. Test walls would be constructed inside in order to simulate drilling in a room. Standard level measuring equipment and 20 weeks of testing are included - \$11,000 - 1 year.

Meeting has been arranged whereby AD will brief [] in detail as to requirements.

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Pipe Puller Program

It has been decided to accept this proposal as it stands. It has the informal approval of AD. Present program is being expanded.

The new program will include testing of drills, determination of the horsepower and load requirements for penetrating various materials.

[] has already demonstrated that by using a hollow 5/16" hollow air-cooled drill they can penetrate 30' of concrete in 2 minutes. Before January can furnish details on this test.

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Silent alternating current drives and manual drives.

Hold this proposal for additional personnel clearance before submitting it to an.

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Engineering Division (Contd)

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SubjectStatusReported

General Proposal

Proposal has been mailed
to us.

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Explosive projectile such
as used by carpenters to
 nail lumber to concrete.

Still awaiting proposal.

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General proposal.

Nothing new to report.

Softening of concrete.

TSI DivisionFeasibility tests and
studies.TSI will test theory
that concrete can be
softened by subjecting it
to sudden extremes of
temperature.

25X1

TSI/Chemical Division

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